

AMENDMENTS TO THE CLAIMS

6, 7, 15, and 16

1-5. (Canceled)

6. (Currently Amended) A [[The]] diode-pumped solid-state laser device used to side-pump a laser rod, wherein:

a cooling tube to cool said laser rod with the use of flowing water is provided coaxially so as to surround said laser rod; and

said cooling tube is provided with an antireflection area for pumping light on a portion of an outer surface thereof, and with a high reflection area for the pumping light on another portion of the outer surface on which said antireflection area is absent wherein the antireflection area is not a hole through the cooling tube;

wherein a pumping laser diode is placed in such a manner so as to prevent an optical axis of the, pumping light that passes through said antireflection area and goes incident on said laser rod from intersecting with a central axis of said laser rod;

wherein said antireflection area is provided to a plurality of places along a circumferential direction of said outer surface;

wherein said antireflection area comprises an antireflection coating; and said high reflection area comprises a high reflection coating; and

according to claim 5, wherein:

wherein said high reflection coating is covered with said antireflection coating.

7. (Currently Amended) A [[The]] diode-pumped solid-state laser device used to side-pump a laser rod, wherein:

a cooling tube to cool said laser rod with the use of flowing water is provided coaxially so as to surround said laser rod; and

said cooling tube is provided with an antireflection area for pumping light on a portion of an outer surface thereof, and with a high reflection area for the pumping light on another portion of the outer surface on which said antireflection area is absent wherein the antireflection area is not a hole through the cooling tube;

wherein a pumping laser diode is placed in such a manner so as to prevent an optical axis of the, pumping light that passes through said antireflection area and goes incident on said laser rod from intersecting with a central axis of said laser rod;

wherein said antireflection area is provided to a plurality of places along a circumferential direction of said outer surface;

wherein said antireflection area comprises an antireflection coating; and said high reflection area comprises a high reflection coating; and according to claim 5,
wherein:

wherein said antireflection area includes said antireflection coating alone;
and

said high reflection area includes said high reflection coating on said antireflection coating.

8.-14. (Canceled)

15. (Currently Amended) A [[The]] manufacturing method of a diode-pumped solid-state laser device used to side-pump a laser rod, in which a cooling tube to cool said laser rod with the use of flowing water is provided coaxially so as to surround said laser rod, said method comprising:

a step of providing said cooling tube with an antireflection area for pumping light on a portion of an outer surface thereof, the antireflection area is not being a hole through the cooling tube; and

a step of providing said cooling tube with a high reflection area for the pumping light on another portion of the outer surface on which said antireflection area is absent;

further comprising a step of placing a pumping laser diode in such a manner so as to prevent an optical axis of the pumping light that passes through said antireflection area and goes incident on said laser rod from intersecting with a central axis of said laser rod;

wherein said antireflection area is provided to a plurality of places along a circumferential direction of said outer surface;

wherein said antireflection area comprises an anti-reflection coating

said high reflection area comprises a high reflection coating; and

~~according to claim 14, wherein:~~

wherein said high reflection coating is covered with said anti-reflection coating.

16. (Currently Amended) A [[The]] manufacturing method of a diode-pumped solid-state laser device used to side-pump a laser rod, in which a cooling tube to cool said laser rod with the use of flowing water is provided coaxially so as to surround said laser rod, said method comprising:

a step of providing said cooling tube with an antireflection area for pumping light on a portion of an outer surface thereof, the antireflection area is not being a hole through the cooling tube; and

a step of providing said cooling tube with a high reflection area for the pumping light on another portion of the outer surface on which said antireflection area is absent;

further comprising a step of placing a pumping laser diode in such a manner so as to prevent an optical axis of the pumping light that passes through said

antireflection area and goes incident on said laser rod from intersecting with a central axis of said laser rod;

wherein said antireflection area is provided to a plurality of places along a circumferential direction of said outer surface;

wherein said antireflection area comprises an anti-reflection coating

said high reflection area comprises a high reflection coating; ~~according to claim 14, wherein:~~

wherein said antireflection area includes said anti-reflection coating alone;
and

said high reflection area includes said high reflection coating on said anti-reflection coating.

17.-18. (Canceled)